CLAIMS

- 1. A method for decomposing a multicast transaction into multicast messages directed to
- targeted nodes of a distributed shared memory multiprocessor system, the multicast
- transaction issued by a source node of the system to acquire data stored on a home node
- of the system, the method comprising the steps of:
- apportioning the multicast transaction into a predetermined number of multicast
- 6 packets at a global port of the home node;
- forwarding the multicast packets to a central switch fabric interconnecting nodes;
- generating the multicast messages from the packets at the central switch fabric,
- 9 the multicast messages generated according to multicast decomposition and ordering
- 10 rules; and
- distributing the multicast messages to the targeted nodes.
 - 2. The method of Claim 1 wherein:
- the multicast messages include a commit signal (comsig) and one or more comsig
- 3 supporting messages, and
- the comsig and the one or more comsig supporting messages are distributed last.
- 3. The method of Claim 1 wherein the step of generating the multicast messages com-
- 2 prises the step of generating the multicast messages associated with the source node and
- the home node as a result of the last packet in the predetermined number of multicast
- 4 packets.
- 4. The method of Claim 1 wherein the multicast message associated with the source node
- is a command response message and wherein the multicast message associated with the
- 3 home node is a comsig supporting message.